

FIG. 1

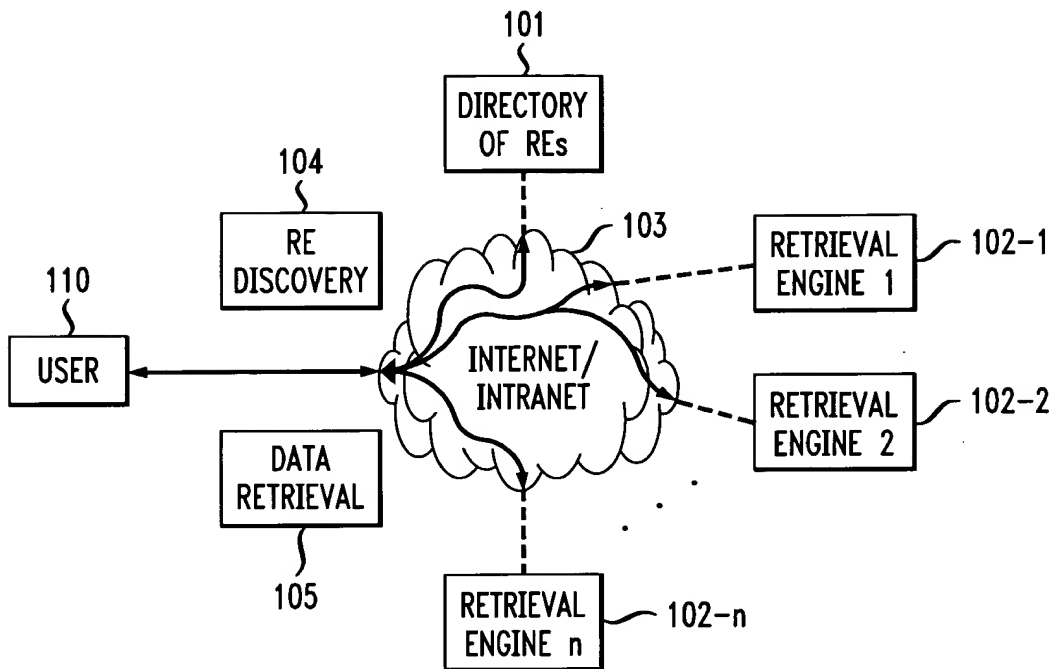


FIG. 2

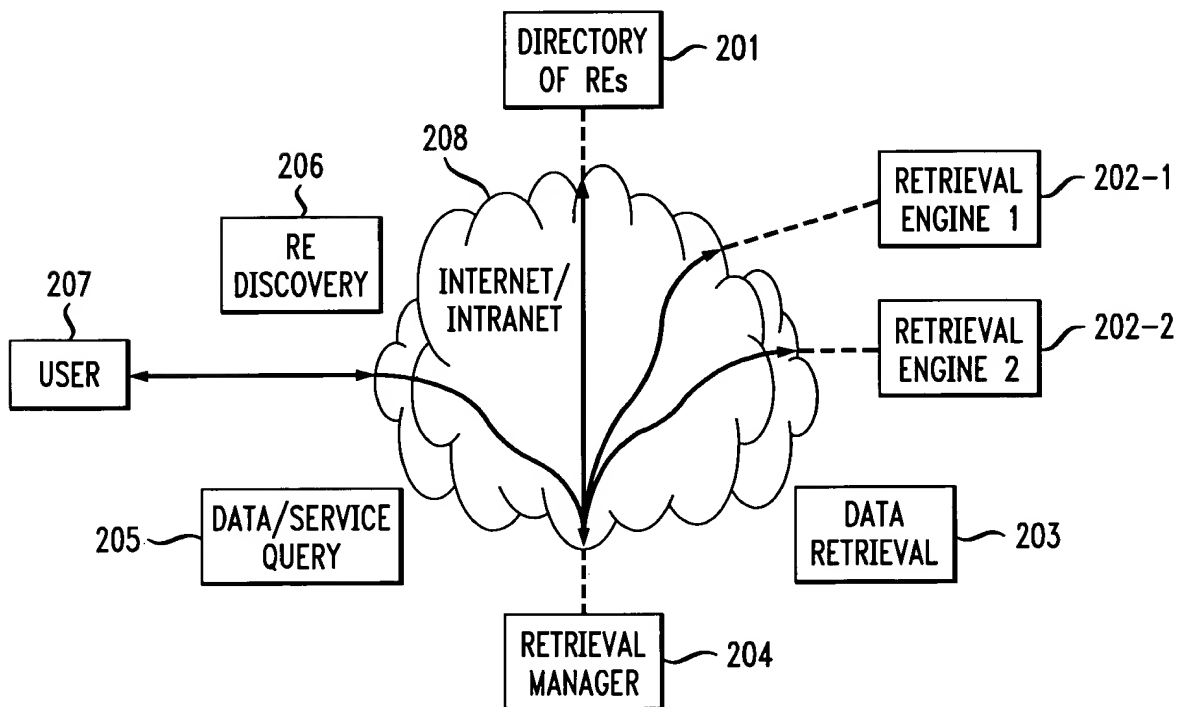


FIG. 3

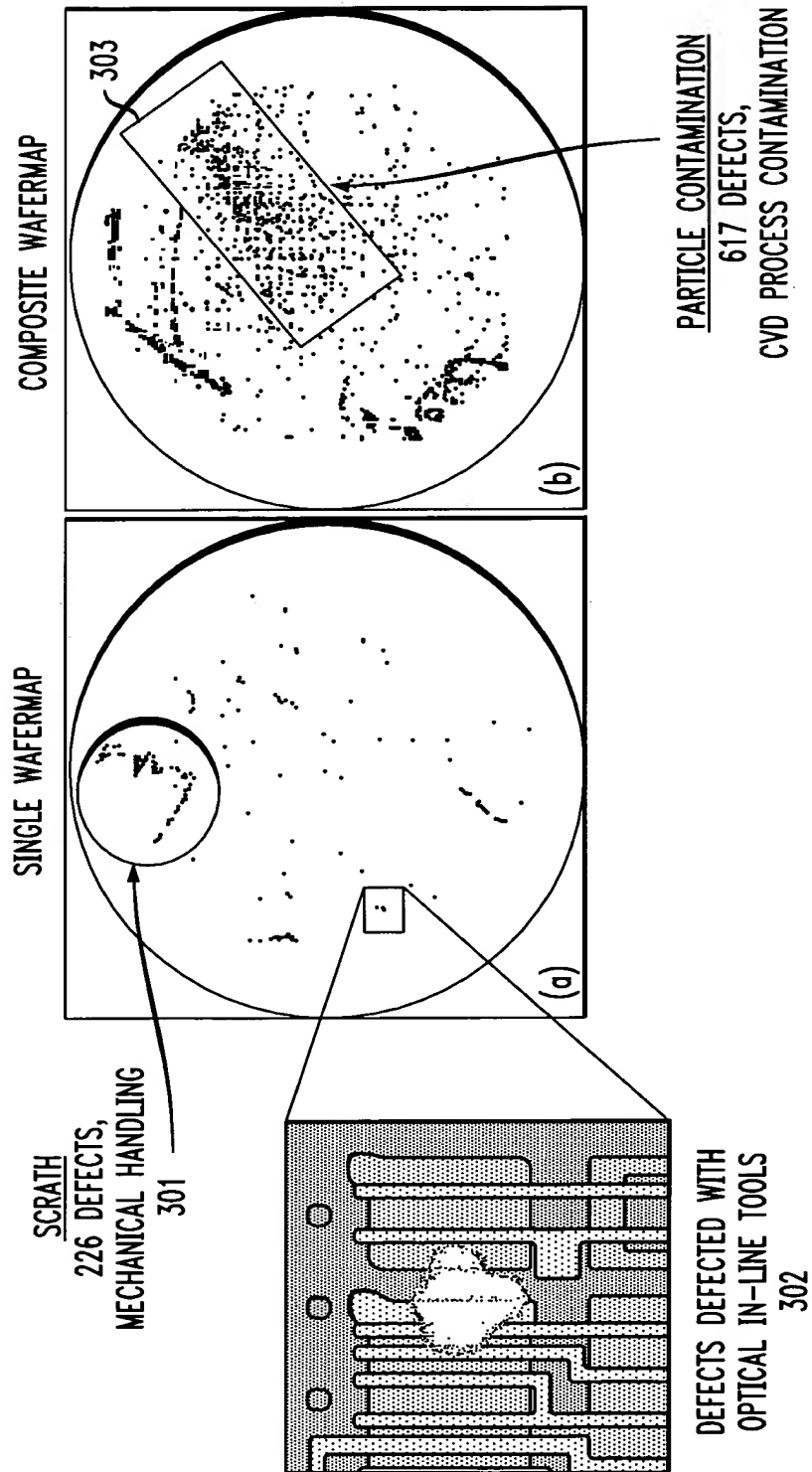


FIG. 4

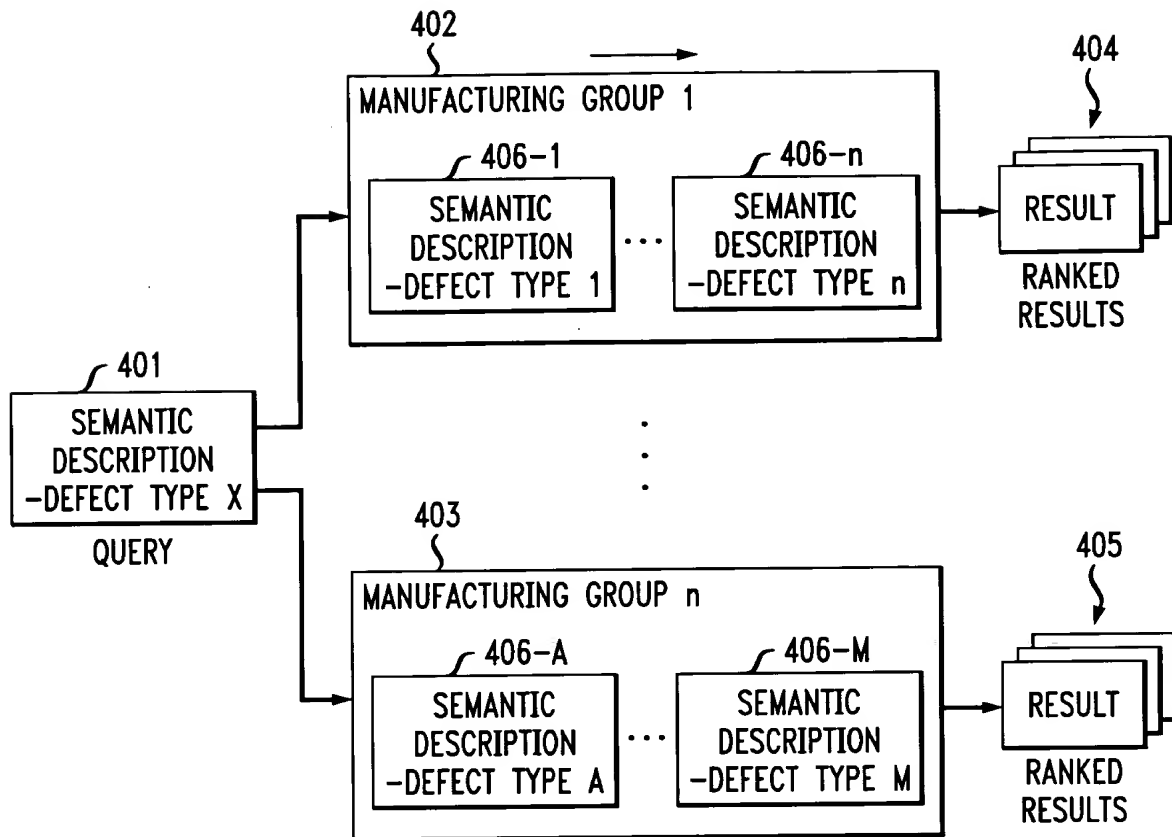


FIG. 5

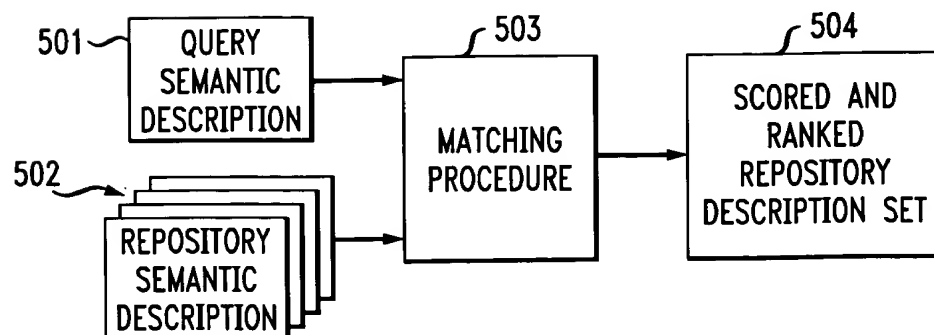


FIG. 6

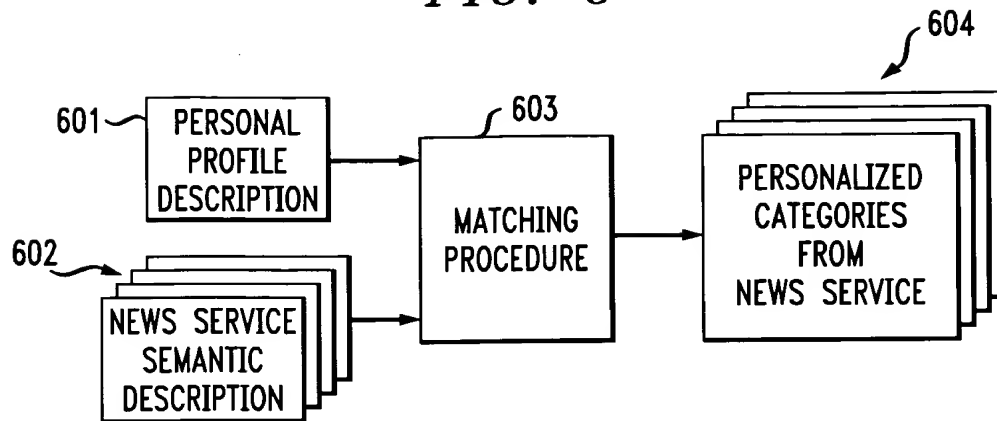


FIG. 7

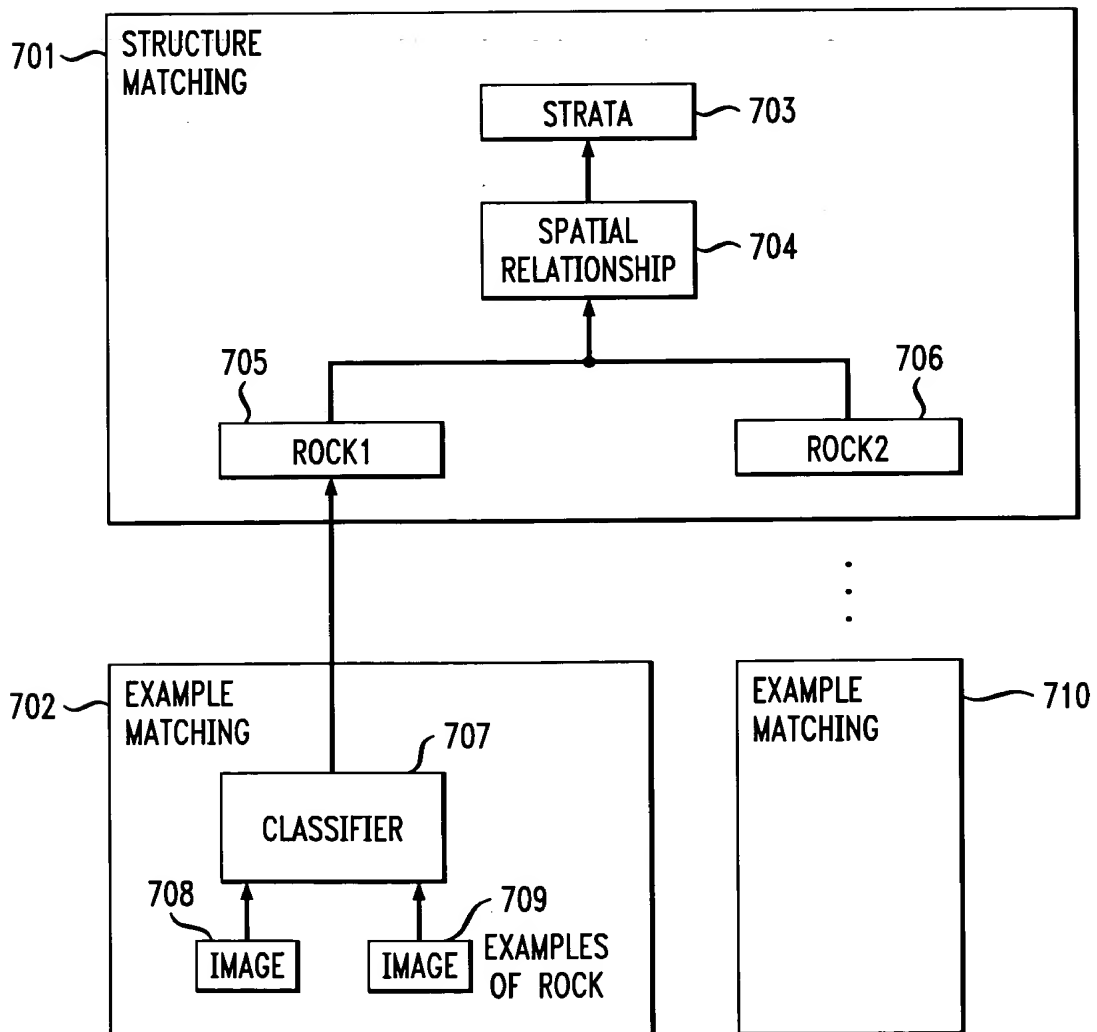


FIG. 8

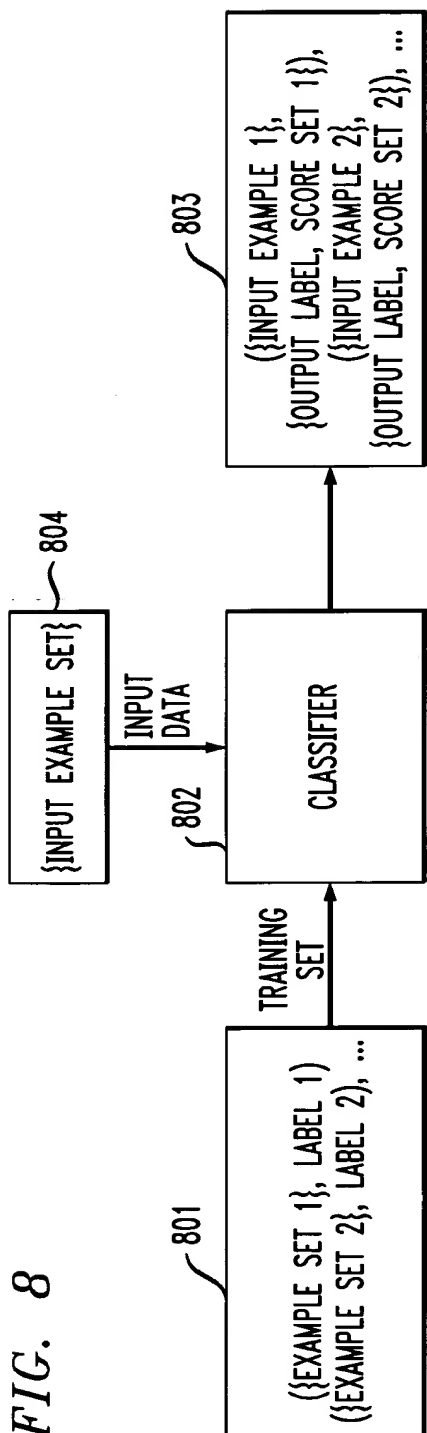


FIG. 10

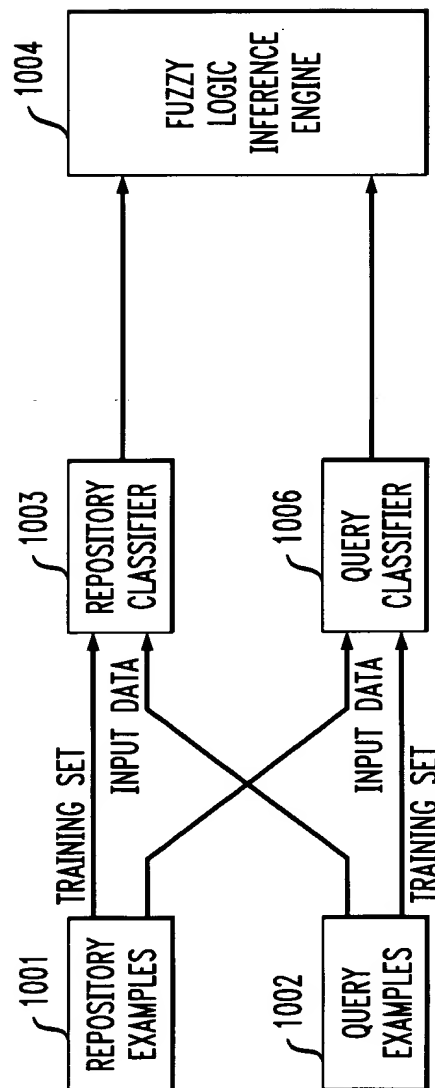


FIG. 9

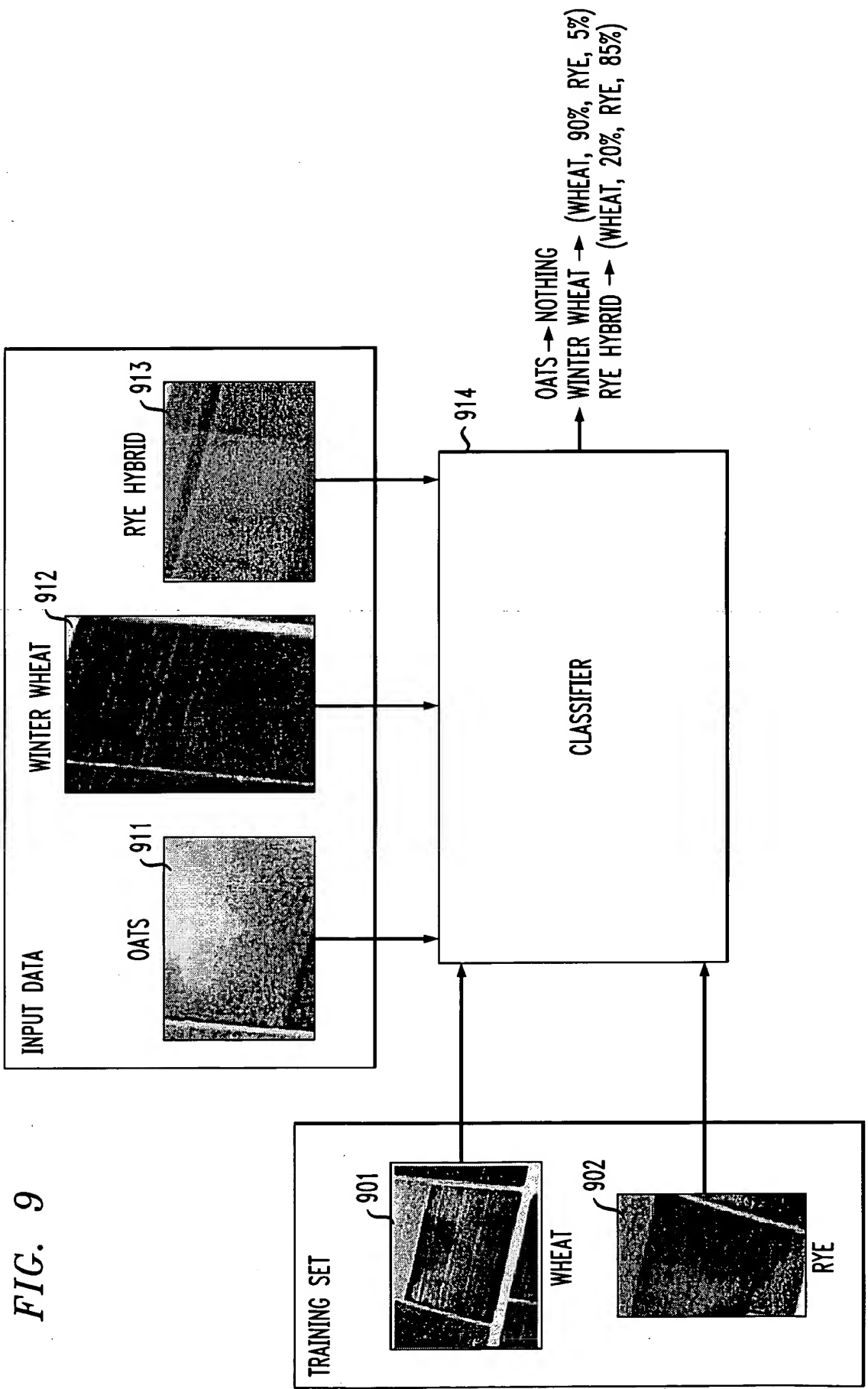
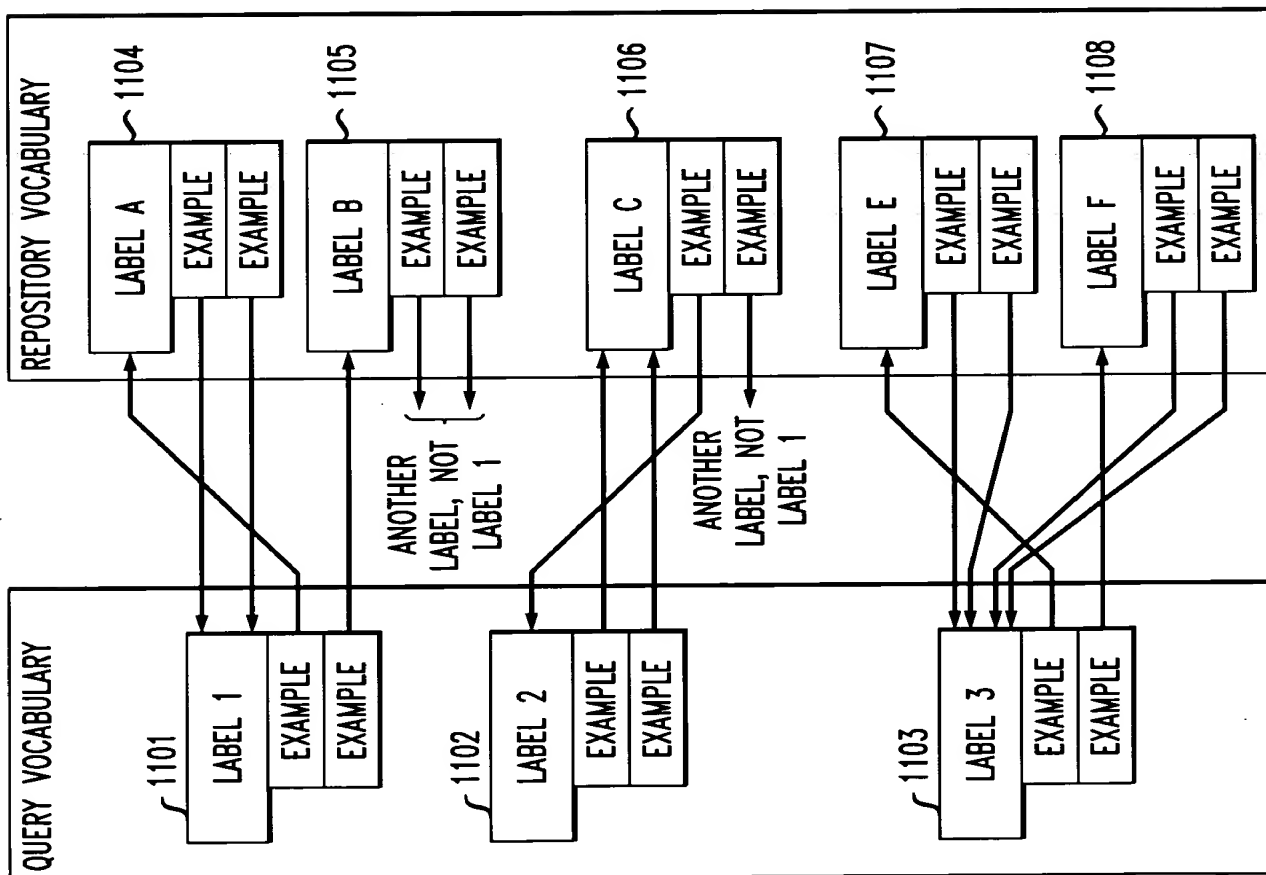


FIG. 11



1109

CONCLUDE:
 LABEL 1 → LABEL A,
 FAIRLY HIGH PROBABILITY,
 LABEL B LOW PROBABILITY

1110

CONCLUDE:
 LABEL 2 → LABEL C,
 FAIRLY HIGH PROBABILITY

1111

CONCLUDE:
 LABEL 3 → LABEL E OR F
 HIGH PROBABILITY

FIG. 12

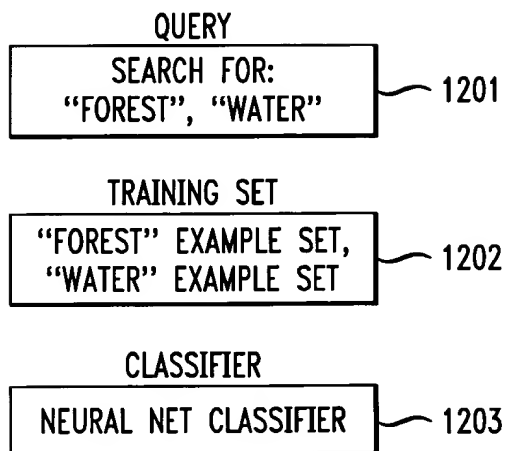


FIG. 13

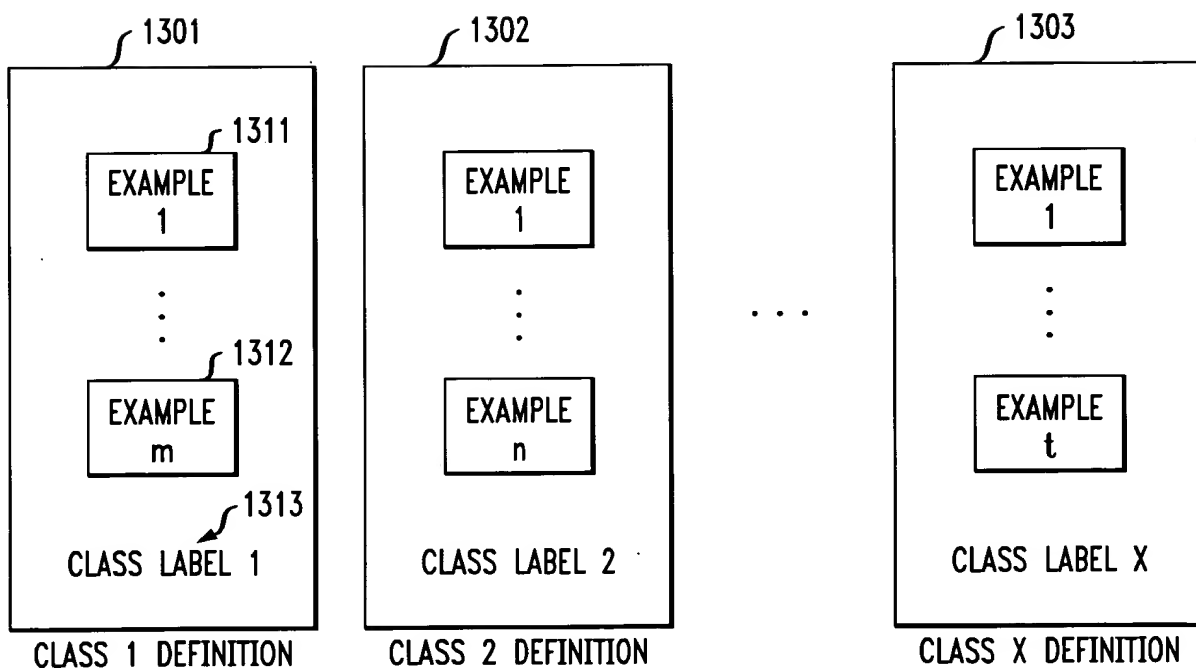


FIG. 14

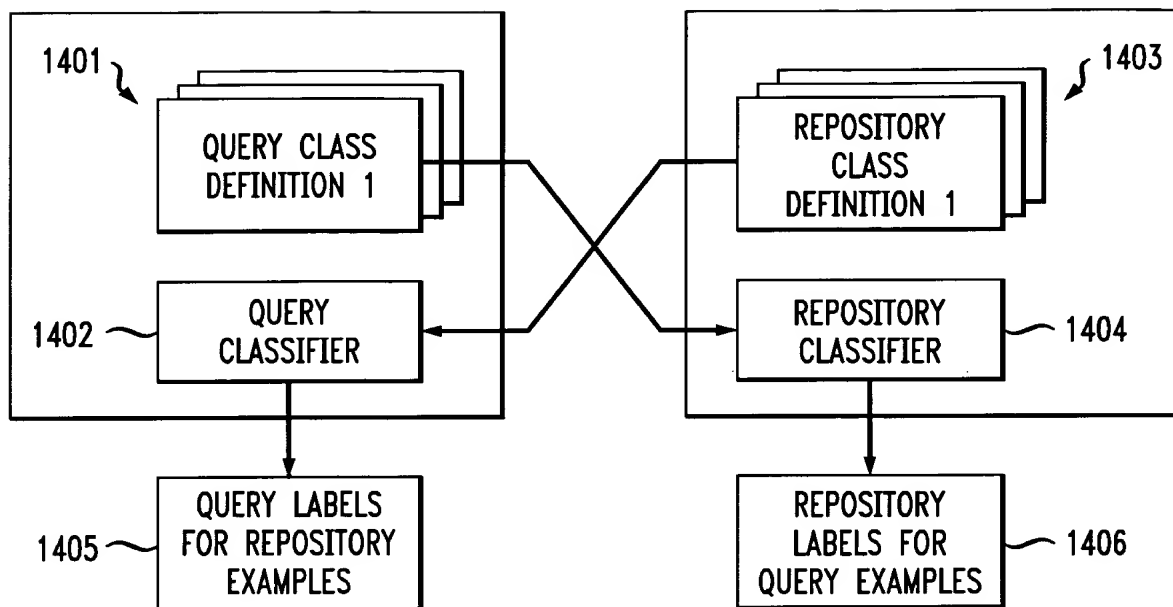


FIG. 15

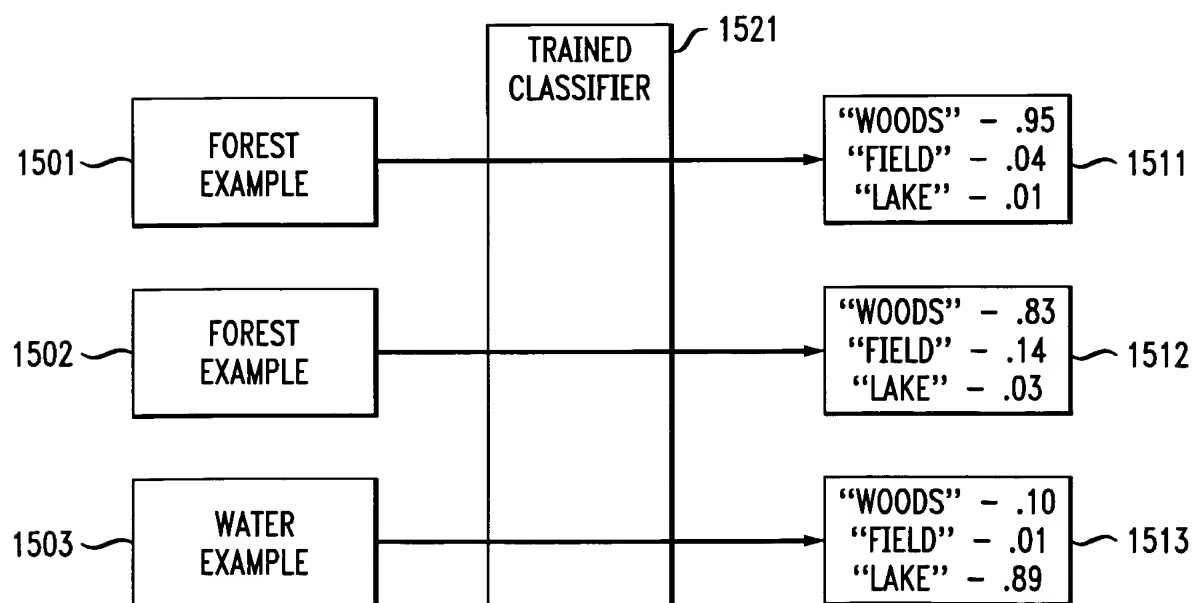




FIG. 16

(A) QUERY EXAMPLES CROSS-CLASSIFIED USING REPOSITORY CLASSIFIER			(B) REPOSITORY EXAMPLES CROSS-CLASSIFIED USING QUERY CLASSIFIER		
INPUT LABEL	OUTPUT LABEL	SCORE	INPUT LABEL	OUTPUT LABEL	SCORE
EXAMPLE 1 1601	FOREST	.95	WOODS	FOREST	.97
	FOREST	.04	WOODS	WATER	.03
	FOREST	.01	WOODS	FOREST	.89
EXAMPLE 2 1602	FOREST	.83	WOODS	WATER	.11
	FOREST	.14	FIELD	FOREST	.67
	FOREST	.03	FIELD	WATER	.33
EXAMPLE 3 1603	WATER	.10	LAKE	FOREST	.05
	WATER	.01	LAKE	WATER	.95
	WATER	.89			

FIG. 17

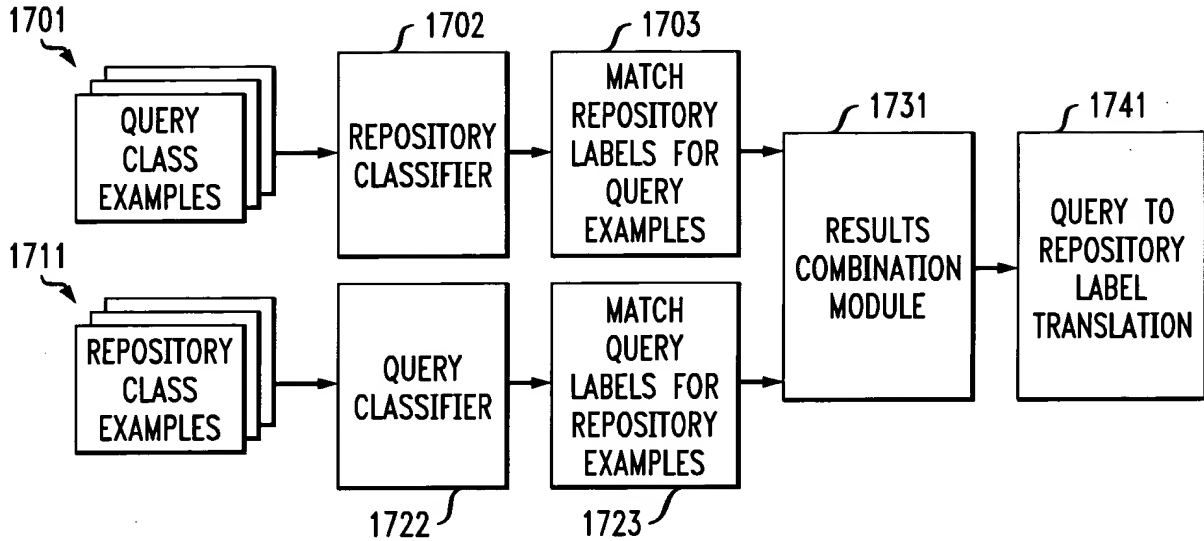


FIG. 18

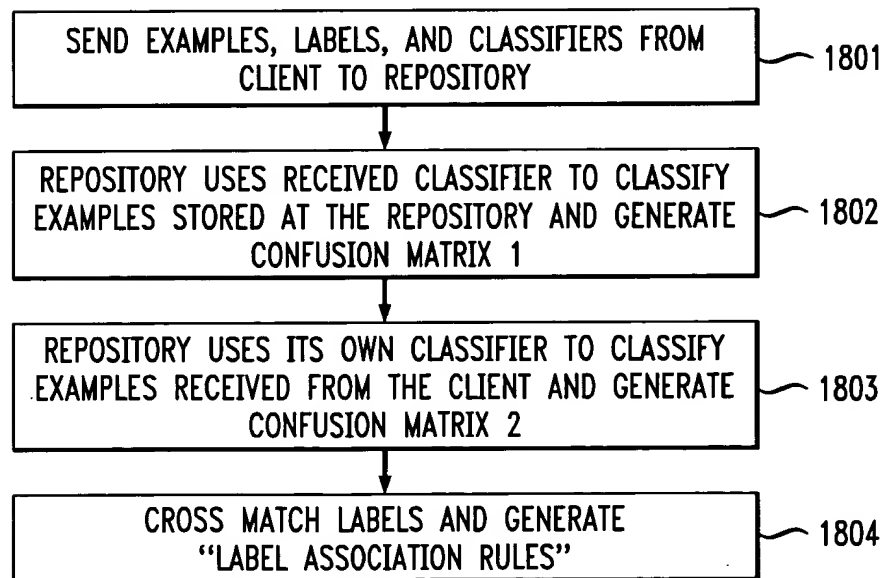


FIG. 19

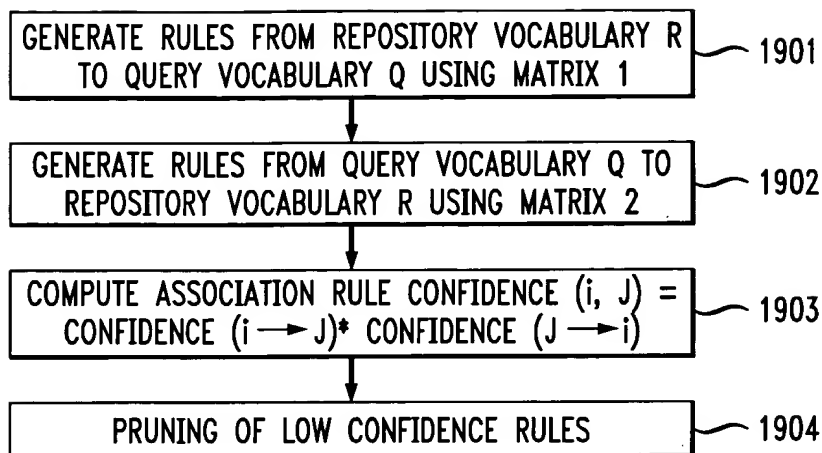


FIG. 20

MATRIX 1 ($R \rightarrow Q$)

	A	B
1	0.75	0.15
2	0.35	0.25
3	0.25	0.65

MATRIX 2 ($Q \rightarrow R$)

	1	2	3
A	0.65	0.15	0.10
B	0.15	0.25	0.6

	(1,A)	$0.75 \cdot 0.65$	0.4875	
	(1,B)	$0.15 \cdot 0.15$	0.0225	
	(2,A)	$0.35 \cdot 0.15$	0.0525	
	(2,B)	$0.25 \cdot 0.25$	0.0625	
	(3,A)	$0.25 \cdot 0.1$	0.025	
	(3,B)	$0.65 \cdot 0.6$	0.39	

FIG. 21

